Divisional of Appl. No. 09/513,907
Amdt. dated 11/21/2003
Preliminary Amendmen

PATENT

Amendments to the Claims: This listing of claims will replace all prior versions and listings of claims in the application. Please delete claims 1-13 and amend claims 14-21 as follows.

Listing of Claims:

1. - 13. (Canceled)

14. (Original) A method for identifying a high-resolution protein expression fingerprint for a cell type, tissue, or pathological sample, comprising obtaining a protein-containing extract of a cellular sample and electrophoresing said extract with a first capillary electrophoresis apparatus, eluting protein-containing fractions therefrom, electrophoresing said protein containing fractions on a second capillary electrophoresis apparatus, or plurality thereof in parallel, and identifying the species of proteins by fragmentation mass spectroscopy sequencing to obtain PSTs for a plurality of protein species, and compiling a dataset or fingerprint record containing the collection of PSTs obtained thereby.

15. (Original) The method of claim 14, comprising quantitative detection of protein species and compiling a dataset wherein the relative abundance and/or absolute amount of a plurality of protein species eluted from said second capillary electrophoresis are cross-tabulated with the PST identification.

16. (Original) A protein expression fingerprint comprising an array of at least 100 protein species each having a unique identifier cross-tabulated with quantitative data indicating relative and/or absolute abundance of each species in a sample.

17. (Original) A protein expression fingerprint comprising an array of at least 100 protein species each having a PST cross-tabulated with a separation coordinate.

18. (Original) A protein expression fingerprint comprising an array of at least 100 protein species each having a PST obtained by the method of claim 1.

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19.   (Original) A method for producing a computer database comprising a computer and software for storing in computer-retrievable form a collection of protein expression fingerprint records cross-tabulated with data specifying the source of the protein-containing sample from which each protein expression fingerprint record was obtained.

20.   (Original) The method of claim 19, wherein at least one of the sources is from a tissue sample known to be free of pathological disorders.

21.   (Original) The method of claim 19, wherein at least one of the sources is a known pathological tissue specimen.